



PRELIMINARY PROGRAM

THURSDAY – 1st JUNE 2023

VENUE: **Conference hotel: Quinta das Lagrimas**

16.00 Registration

16.30-18.30: **Symposium: Treatment of Vision threatening complications**

Chairs: Inês Marques and João Figueira

16.30-16.45: Welcome and introduction

16.45-17.00: Reclassification DR Progression – Phenotypes and risk for vision threatening complications – **José Cunha Vaz**

17.00-17.15: Biomarkers to determine if steroids vs anti- VEGF agents are more appropriate to treat DME – **Lilianne Duarte**

17.15- 18.10: **What is new in DME treatment?**

- Faricimab – Roche – **Keissy Sousa**
- Aflibercept – Bayer – **Sérgio Leal**
- Iluvien – Alimera – **Miguel Ruão**
- Ozurdex – Abbvie – **Bernardete Pessoa**

18.10- 18.30 **Therapeutic targets in non-proliferative and proliferative DR**

- sCG activators and neuroprotection - **Isabel Pires**
- Real World Evidence: Protocol W/ Panorama Study - **João Figueira**

18.30: **Official Opening of EAsDEC Conference** by Ines Marques and Tunde Peto

VENUE: **Conference hotel: Finger food + Soft Drinks**

FRIDAY – 2nd JUNE 2023

VENUE: **Conference hotel: Quinta das Lagrimas**

8.30 am: Registration

8.45 am: INTRODUCTION AND WELCOME by Ines Marques and Tunde Peto

9.00 - 10.15: **SESSION 1:**

The latest in translational research in diabetic eye disease

Moderators: Ying Chen and Noëlle Bakker

9.00 – 9.09: **Elena Beltramo (Italy):** Release of pro-inflammatory/angiogenic factors by retinal microvascular cells is mediated by extracellular vesicles derived from M1-activated microglia

9.09 – 9.18: **Francisco Martín-Loro (Spain):** A marine bioinspired molecule modulates the diabetic retinopathy progression by M2 response-induction and promote the inflammatory resolution

9.18 – 9.27: **Paola Serrano Martinez (Netherlands):** The role of adrenomedullin in the regulation of angiogenesis and endothelial barrier function

9.27 – 9.36: **Daria Fresia (Switzerland):** Hypoglycemia induces autophagy in the mouse retina

9.36 – 9.45: **Christopher Kelsall (UK):** Examining (i) microvascular responsiveness to locally delivered glucagon-like peptide-1 analogue, liraglutide; and (ii) the glycocalyx in individuals with type 2 diabetes and retinopathy

9.45 – 9.54: **Noëlle Bakker (Netherlands):** Histopathological changes in the retinal neurovascular unit during progression of diabetic retinopathy

9.54 -10.10: **Winner of the Anne-Katrin Siolie Best Abstract Student Prize: Mona Albargothy (UK):** Investigation of the retinal neurovascular unit in diabetic retinopathy using 3D electron microscopy

10.15 - 11.15: **SESSION 2:**

Symposium: Imaging retinal ischemia can change the way of monitoring and staging of DR

Moderators: Simon Harding and Ana Rita Santos

10.15-10.30 Widefield Imaging contributes to re-classification of DR severity – **Tunde Peto**

10.30- 10.45 Multimodal Imaging for detection of DR lesions – **Inês Marques**

10.45-11.00 New OCT biomarkers of OCTA for staging of DR – **Ana Rita Santos**

11.00-11.15 Challenges of OCTA utilization in the study of DR: standardization and development of reliable metrics – **Stela Vujosevic**

11.15 – 11.40: Coffee/tea break

11.40 – 12.40: **SESSION 3:**

Aspects of managing patients with diabetic eye disease

Moderators: Stela Vujosevic and Susana Penas

11.40-11.55: **Patrice Fort (USA):** The Mary Tyler Moore Vision Initiative Diabetic Retinal Diseases Biorepository and Resource Center

11.55-12.04: **Rafael Simó (Spain):** Rapid reduction of HbA1c and early worsening of diabetic retinopathy: A real-world population-based study in subjects with type 2 diabetes

12.04-12.13: **Anne Suhr Thykjær (Denmark):** Development of diabetic retinopathy in relation to bariatric surgery: a nationwide study

12.13-12.22: **Kiran Shah (India):** Patients with Type 2 diabetes who have non-alcoholic fatty liver disease are less likely to have diabetic retinopathy

12.22–12.31: **James Talks (UK):** Early uptake and treatment patterns of Faricimab among Diabetic Macular Edema (DME) patients in the UK

12.31-12.40: **Susana Penas (Portugal):** RIVER Study – registry data on the use of intravitreal fluocinolone acetonide implant for diabetic macular edema in Portugal

12.40 **LUNCH** (poster presenters have priority for lunch)

12.55 **SESSION 4: POSTER SESSION:**

Basic science and imaging

Moderators: Jakob Grauslund and Kiran Shah

Fátima Cano-Cano (Spain): Associations between serum inflammatory mediators and spectral-domain (SD) OCT parameters in T1 Diabetes Mellitus and Multiple Sclerosis patients

Ying Chen (Germany): MDM2 knockout in pericytes prevents mouse diabetic retinopathy

Jihong Lin (Germany): miRNA-124 prevents rat diabetic retinopathy by inhibiting the microglial inflammatory response

Laura Cushley (UK): The NaviSight Study: An investigation into the peripheral retina in diabetes and navigating the built environment

Ali Sharif (Sweden): Inter-observer reliability of counting retinal microaneurysms and haemorrhages in elderly with diabetes

Débora Reste-Ferreira (Portugal): Abnormal retinal fluid in eyes with diabetic macular edema

Marta Lopes (Portugal): Non-invasive characterization of intraretinal microvascular abnormalities with Widefield Swept Source OCTA imaging

Ana Cláudia Rocha (Portugal): CLARUS (or Wide-Field Fundus Imaging) improves ETDRS grading with classic 7-fields fundus photographs

Clinical studies

Moderators: Anne Suhr Thykjær, Bénédicte Dupas, David Keegan, Sema Tamer Kaderli

Katie Curran (UK): Diabetic retinopathy progression among children and young adults with Type 1 diabetes in India

Mohammed Zayed (UK): The relationship between visual function and severity of diabetic retinopathy

Nicola Parker (UK): Follow-up and management of patients with diabetes with neovascular glaucoma referred from the Northern Ireland Diabetic Eye Screening Programme in 2015-2016

Shweta Pandey (UK): Introduction of Virtual Eye Clinics to reduce delayed follow up waiting times following Covid-19 pandemic

Jeonghoon Ahn (Switzerland): Economic impact of Fenofibrate among the Chinese patients with Diabetic Retinopathy

Davis Preiss (UK): Visual function and quality of life in people with diabetic retinopathy: insights from the LENS trial

Ellen Steffenssen Sauesund (Norway): A pilot study of implementing diabetic retinopathy screening in the region of Oslo, Norway: baseline results

Frederik Pedersen (Denmark): Associations between metabolic and structural retinal parameters and depression score in individuals with type 2 diabetes

Jonathan Nairn (UK): Performance of "treat and extend" anti-VEGF therapies (Aflibercept, Ranibizumab) used for diabetic macular oedema in West of Scotland at 1 year

James Brodie (UK): Is diabetic retinopathy screening worthwhile among people first diagnosed with diabetes at older ages? Cohort study of Norfolk Diabetic Retinopathy Screening Programme

Aditi Chaturvedi (Ireland): The effects of reminder and information letters on non-attendance to a Diabetic Retinopathy Screening Clinic for pregnant patients

Catherine Jamison (UK): Prevalence and severity of retinopathy and maculopathy in people with diabetes mellitus before and after hospital admission due to COVID-19 in the first wave of the pandemic (March–June 2020)

Lika Tsutskiridze (Georgia): The role of regular screening program and the involvement of international organizations for the successful implementation of the project

Florian Toti (Albania): Prevalence of diabetic retinopathy and related risk factors in patients with diabetes in Tirana district, Albania

Natalia Palarie (Moldova): Lipid metabolism biomarkers in diabetic retinopathy in patients with Type 1 diabetes mellitus

Romano Vrabec (Croatia): Association between ganglion cell-inner plexiform layer in Type 2 Diabetes with and without retinopathy and its correlated systemic risk factors

Alexandr Khudyakov (Russia): Optimal choice of gas or silicone tamponade for surgical treatment advanced stages of proliferative diabetic retinopathy patients

Natalia Pomytkina (Russia): Detection of early worsening of diabetic retinopathy in pregnant patients with diabetes using OCT angiography

Dmitry Lipatov (Russia): Long-term results of drainage surgery of neovascular glaucoma in patients with diabetes mellitus

14.40-15.55: **SESSION 5:**

Results from clinical research around Europe

Moderators: Ben Charmer and Noemi Lois

14.40 -14.49: **Martina Tomic (Croatia):** High prevalence of vision-threatening diabetic retinopathy at the first fundus examination in Croatia

14.49-14.58: **Jakob Grauslund (Denmark):** Onset and progression of diabetic retinopathy within eight years in type 1 diabetes in the Danish Registry of Diabetic Retinopathy

14.58 -15.07: **Noemi Lois (UK):** Prognostic factors for the development and progression of proliferative diabetic retinopathy (PDR)

15.07-15.16: **David Keegan (Ireland):** Results of the two-year screening interval initiative within the Irish National Diabetic Retinopathy Screening Programme (RetinaScreen)

- 15.16-15.25: **Tunde Peto (UK):** 5-Year outcomes for DME following anti-VEGF treatment: Multicentre analysis in the UK
- 15.25-15.34: **Ben Charmer (UK):** 10-year outcomes of patients referred with proliferative diabetic retinopathy from the United Kingdom diabetic retinopathy screening service
- 15.34 -15.49: **Simon Harding (UK):** Impact on blindness of organized diabetic retinopathy screening including artificial intelligence (AI) and optical coherence tomography (OCT) in urban China – a lifetime cost effectiveness analysis
- 15.55-16.40: **EVA KOHNER Lecture:**
Professor Rafael Simó: Neurovascular Unit impairment in Diabetic Retinopathy: Clinical and therapeutic implications
 Introduced by: Tunde Peto
- 16.45 **ANNUAL GENERAL MEETING**
- 19.00 **CONFERENCE DINNER**
- VENUE: **Conference hotel: Quinta das Lagrimas**

SATURDAY– 3rd JUNE 2023

VENUE: **Conference hotel: Quinta das Lagrimas**

- 8.30 Registration
- 9.00 - 10.00: **SESSION 6:**
Imaging diabetic eye diseases
Moderator: Torcato Santos and Reinier Schlingemann
- 9.00-9.09: **Recivall Salongcay (UK):** Accuracy of point of care artificial intelligence grading using handheld retinal imaging in a community-based Diabetic Eye Screening Programme
- 9.09-9.18: **Bénédicte Dupas (UK):** Screening for TelCaps by OCT thickness mapping in patient with diabetic macular edema
- 9.18-9.27: **Torcato Santos (Portugal):** Abnormal fluid accumulation in the diabetic retina quantified by OCT-Leakage
- 9.27-9.36: **Sema Tamer Kaderli (Turkey):** Sensitivity and specificity of the optical coherence tomography angiography for detection of neovascularization and evaluation of peripheral ischemia in diabetic retinopathy
- 9.36-9.45: **Inês Pereira Marques (Portugal):** Swept-source OCTA discriminates severity staging of NPDR: The CHART Study

- 9.45-9.54: **Ana Catarina Almeida (Portugal):** Combination of ultra-widefield colour fundus photography and Optical Coherence Tomography Angiography identify different subtypes of non-proliferative diabetic retinopathy
- 10.00 - 11.00: **SESSION 7:**
Laboratory and Translational research in diabetic eye disease
Moderators: Francisco Ambrósio and Ingeborg Klaassen
- 10.00 – 10.15: **Francisco Ambrósio (Portugal):** Non-canonical anti-inflammatory effects of sitagliptin on (retinal) microglia
- 10.15 -10.24: **Rosa Fernandes (Portugal):** Tear fluid proteins analysis from donors with diabetes and diabetic retinopathy (DR)
- 10.24 – 10.33: **Ingeborg Klaassen (Switzerland):** Variations in genetic profile as predictors of anti-VEGF treatment response in conditions with macular oedema
- 10.33 – 10.48: **José Bessa (Portugal):** The non-coding genome in human disease and why it matters to understand the genetics of diabetic retinopathy
- 10.50- 11.20: Coffee/tea break**
- 11.20 – 12.50: SESSION 8:**
Biomarkers and artificial intelligence
Moderators: José Cunha Vaz and Maria Vittoria Cicinelli
- 11.20 – 11.29: **Ana I. Arroba (Spain):** Differential pattern of biomarkers between early and advance stage in patients with Type 1 diabetes with Diabetic Retinopathy
- 11.29 – 11.38: **Luís Mendes (Portugal):** Automated discrimination between eyes with mild and moderate non-proliferative diabetic retinopathy
- 11.38 – 11.47: **Maria Vittoria Cicinelli (Italy):** Rate and predictors of misclassification of diabetic macular edema as detected by the artificial intelligence EyeArt system
- 11.47 – 12.05: **David Wong (UK):** Adaptive Comparative Judgement as a basis for a machine learning algorithm for diabetic retinopathy screening
- 12.05 - 12.20: Cardiovascular disease in diabetes - **Sílvia Monteiro**
- 12.20 – 12.40: New treatment strategies in diabetes – is artificial pancreas feasible? – **Daniela Coelho/Sofia Monteiro**
- 12.40-13.00 **BEST POSTER PRIZE CEREMONY and CLOSING REMARKS**